

Data acquisition workflow utilizing lod3 geometry templates and point clouds for urban building energy modelling
Iliste, Elisa; Pikas, Ergo; Kalamees, Targo; Viik, Joosep Proceedings of the 2024 European Conference on Computing in Construction 2024 / p. 689-696 <https://doi.org/10.35490/EC3.2024.221> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Actual energy performance and indoor climate in Finnish NZEB daycare and school buildings

Ahmed, Kaiser; Hasu, Tero; Kurnitski, Jarek Journal of building engineering 2022 / art. 104759
<https://doi.org/10.1016/j.jobee.2022.104759> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Adaptive ventilation for climate control in a medieval church in cold climate

Napp, Margus; Wessberg, Magnus; Kalamees, Targo; Broström, Tor International journal of ventilation 2016 / p. 1-14 : ill
<https://doi.org/10.1080/14733315.2016.1173289> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Addressing housing needs of the displaced people promoting resilient and sustainable communities

Jayakody, Chathurangane; Malalgoda, Chamindi Ishara; Amaratunga, Dilanthi; Haigh, Richard; Liyanage, Champika; Hamza, Mo; Witt, Emlyn David Qivitoq; Fernando, Nishara International Journal of Disaster Resilience in the Built Environment 2022 / p. 368-385 : ill <https://doi.org/10.1108/IJDRBE-09-2021-0124> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Advanced digital technologies in the post-disaster reconstruction process—A review leveraging small language models

Rawat, Alok; Witt, Emlyn David Qivitoq; Roumyeh, Mohamad; Lill, Irene Buildings 2024 / art. 3367
<https://doi.org/10.3390/buildings14113367> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aggregation ready flexibility management methods for mechanical ventilation systems in buildings

Maask, Vahur; Rosin, Argo; Korõtko, Tarmo; Thalfeldt, Martin; Syri, Sanna; Ahmadiyahangar, Roya Energy and buildings 2023 / art. 113369, 14 p. : ill <https://doi.org/10.1016/j.enbuild.2023.113369> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Air leakage levels in timber frame building envelope joints

Kalamees, Targo; Alev, Üllar; Pärnalaas, Mihkel Building and environment 2017 / p. 121-129 : ill
<https://doi.org/10.1016/j.buildenv.2017.02.011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Air leakage of joints filled with polyurethane foam

Hallik, Jaanus; Gustavson, Heleen; Kalamees, Targo Buildings 2019 / art. 172, 15 p. : ill <https://doi.org/10.3390/buildings9070172> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Air pressure differences over external walls in new and retrofitted schools and daycare centers

Kauppinen, Antti; Kiviste, Mihkel; Pirhonen, Joni; Tuominen, Eero; Laukkanen, Anssi; Huttunen, Petteri; Vinha, Juha Buildings 2022 / art. 1629 <https://doi.org/10.3390/buildings12101629> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Airtightness of cross-laminated timber envelopes : influence of moisture content, indoor humidity, orientation, and assembly

Kukk, Villu; Bella, Adeniyi; Kers, Jaan; Kalamees, Targo Journal of building engineering 2021 / art. 102610
<https://doi.org/10.1016/j.jobee.2021.102610> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Airtightness, air exchange and energy performance in historic residential buildings with different structures

Eskola, Lari; Alev, Üllar; Arumägi, Endrik; Jokisalo, Juha; Donarelli, Anna; Sirén, Kai; Kalamees, Targo International journal of ventilation 2015 / p. 11-26 : ill <https://doi.org/10.1080/14733315.2015.11684066> [Journal metrics at Scopus](#) [Article at Scopus](#)

Alternative approach to buckling of square hollow section steel columns in fire

Kervališvili, Andrei; Talvik, Ivar Journal of constructional steel research 2014 / p. 140-150 : ill <https://doi.org/10.1016/j.jcsr.2013.11.018> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analysis of energy economic renovation for historic wooden apartment buildings in cold climates

Arumägi, Endrik; Kalamees, Targo Applied energy 2014 / p. 540-548 : ill <https://doi.org/10.1016/j.apenergy.2013.10.041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analysis of measures for managing issues in post-disaster housing reconstruction

Bilau, Abdulquadri Ade; Witt, Emlyn David Qivitoq; Lill, Irene Buildings 2017 / art. 29, p. 1-26 : ill
<https://doi.org/10.3390/buildings7020029> [Journal metrics at Scopus](#) [Article at Scopus](#)

Analysis of the insolation criteria for nearly-zero energy buildings in Estonia

Voll, Hendrik; De Luca, Francesco; Pavlovas, Vitalis Science and technology for the built environment 2016 / p. 939-950 : ill
<https://doi.org/10.1080/23744731.2016.1195657> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analyzing power and energy flexibilities by demand response in district heated buildings in Finland and Germany
Ju, Yuchen; Jokisalo, Juha; Kosonen, Risto; Kauppi, Ville; Janßen, Philipp Science and technology for the built environment 2021 / p. 1440-1460 : ill <https://doi.org/10.1080/23744731.2021.1950434> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analyzing the fulfillment of daylight and overheating requirements in residential and office buildings in Estonia
Sepulveda Luque, Abel; De Luca, Francesco; Thalfeldt, Martin; Kurnitski, Jarek Building and environment 2020 / art. 107036, 12 p <https://doi.org/10.1016/j.buildenv.2020.107036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analytical approach for maximizing self-consumption of nearly zero energy buildings- case study : Baltic region
Ahmadiahangar, Roya; Karami, Hossein; Husev, Oleksandr; Blinov, Andrei; Rosin, Argo; Jonaitis, Audrius; Sanjari, Mohammad Javad Energy 2022 / art. 121744, 11 p. : ill <https://doi.org/10.1016/j.energy.2021.121744> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Analytical modelling and prediction formulas for domestic hot water consumption in residential Finnish apartments
Ferrantelli, Andrea; Ahmed, Kaiser; Pylsy, Petri; Kurnitski, Jarek Energy and buildings 2017 / p. 53-60 : ill <https://doi.org/10.1016/j.enbuild.2017.03.021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The applicability of limiting phase angle temperatures for specifying asphalt binder low temperature performance
Lill, Kristjan; Kontson, Karli; Aavik, Andrus Baltic journal of road and bridge engineering 2023 / p. 166-184 <https://doi.org/10.7250/bjrbe.2023-18.623> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application potential of combining strain hardening cementitious composites and helical reinforcement for 3D concrete printed structures : case study of a spiral staircase
Hass, Lauri; Nefs, K.; Bos, F. P.; Salet, T. A. M. Journal of building engineering 2023 / art. 107926 <https://doi.org/10.1016/j.job.2023.107926> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Aqueous mineral carbonation of oil shale mine waste (limestone) : a feasibility study to develop a CO2 capture sorbent
Puthiya Veetil, Sanoop Kumar; Rebane, Kaarel; Yörük, Can Rüstü; Lopp, Margus; Trikkell, Andres; Hitch, Michael William Energy 2021 / art. 119895 <https://doi.org/10.1016/j.energy.2021.119895> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Assessing the applicability of the European standard EN 17037:2018 for office spaces in a cold climate
Sepulveda Luque, Abel; De Luca, Francesco; Varjas, Toivo; Kurnitski, Jarek Building and environment 2022 / art. 109602 <https://doi.org/10.1016/j.buildenv.2022.109602> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Assessment of the renovation need, material authenticity, and the cultural and environmental value of historic apartment building neighbourhoods
Liiva, Elina; Rummo, Helena; Ambrozevits, Kateriin; Ojari, Andres; Lomp, Siim; Kalamees, Targo Journal of sustainable architecture and civil engineering 2024 / p. 53-67 <https://doi.org/10.5755/j01.sace.35.2.35747> [Journal metrics at Scopus](#) [Article at Scopus](#)

Assessment on strength and stiffness properties of aged structural timber
Kauniste, Maarja; Just, Alar; Tuhkanen, Eero; Kalamees, Targo Journal of sustainable architecture and civil engineering 2024 / p. 62-74 <https://doi.org/10.5755/j01.sace.34.1.35534> [Journal metrics at Scopus](#) [Article at Scopus](#)

Assumptions to road pavement testing by non-destructive means
Janulevičius, Justinas; Čygas, Donatas; Giniotis, Vytautas; Aavik, Andrus The Baltic journal of road and bridge engineering 2013 / p. 227-231 : ill <https://doi.org/10.3846/bjrbe.2013.29> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Avoiding mould growth in an interiorly insulated log wall
Alev, Üllar; Kalamees, Targo Building and environment 2016 / p. 104-115 : ill <https://doi.org/10.1016/j.buildenv.2016.05.020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Benchmark of methods for annual glare risk assessment
Sepulveda Luque, Abel; Bueno, Bruno; Wang, Taoning; Wilson, Helen Rose Building and environment 2021 / art. 108006 <https://doi.org/10.1016/j.buildenv.2021.108006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Bending and pull-out tests on a novel screw type reinforcement for extrusion-based 3D printed concrete
Hass, Lauri; Bos, Freek Second RILEM International Conference on Concrete and Digital Fabrication : Digital Concrete 2020 2020 / p. 632-645 : ill https://doi.org/10.1007/978-3-030-49916-7_64 [Journal metrics at Scopus](#) [Article at Scopus](#)

Benefits through space heating and thermal storage with demand response control for a district-heated office building
Ju, Yuchen; Hiltunen, Pauli; Jokisalo, Juha; Kosonen, Risto; Syri, Sanna Buildings 2023 / art. 2670, 23 p. : ill <https://doi.org/10.3390/buildings13102670> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The BIM-based building permit process : factors affecting adoption

Ullah, Kaleem; Witt, Emlyn David Qivitoq; Lill, Irene Buildings 2022 / art. 45 <https://doi.org/10.3390/buildings12010045> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Building information modelling (BIM) - enabled construction education : teaching project cash flow concepts
Olowa, Theophilus Oluwarotimi Olatunde; Witt, Emlyn David Qivitoq; Lill, Irene International Journal of Construction Management 2021 / p. 1494-1505 : ill <https://doi.org/10.1080/15623599.2021.1979300> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Building sustainability objective assessment in Estonian context and a comparative evaluation with LEED and BREEAM
Seinre, Erkki; Kurnitski, Jarek; Voll, Hendrik Building and environment 2014 / p. 110-120 : ill <https://doi.org/10.1016/j.buildenv.2014.08.005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Carbonation of steel slag and gypsum for building materials and associated reaction mechanisms
Wang, Xue; Ni, Wen; Li, Jiajie; Zhang, Siqi; Hitch, Michael William; Pascual, Rodrigo Cement and Concrete Research 2019 / art. 105893, 12 p. : ill <https://doi.org/10.1016/j.cemconres.2019.105893> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Catalytic effect of oil shale ash on CO2 gasification of leached wheat straw and reed chars
Link, Siim; Tran, Khanh-Quang; Bach, Quang-Vu; Yrjas, Patrik; Rosin, Argo Energy 2018 / p. 906-913 <https://doi.org/10.1016/j.energy.2018.04.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Causality and interpretation : a new design model inspired by the Aristotelian legacy
Pikas, Ergo; Koskela, Lauri; Seppänen, Olli Construction management and economics 2022 / p. 507-525 : ill <https://doi.org/10.1080/01446193.2021.1934884> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Centimetre-range deformations of built environment revealed by drone-based photogrammetry
Varbla, Sander; Ellmann, Artu; Puust, Raido Automation in Construction 2021 / art. 103787 <https://doi.org/10.1016/j.autcon.2021.103787> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Characterizing the bond properties of automatically placed helical reinforcement in 3D printed concrete
Hass, Lauri; Bos, F.P.; Salet, T.A.M. Construction and building materials 2022 / art. 129228, 16 p. : ill <https://doi.org/10.1016/j.conbuildmat.2022.129228> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Charring performance of timber structures protected by traditional lime-based plasters
Liblik, Johanna; Nurk, Meeri; Just, Alar Construction and building materials 2022 / art. 128572 <https://doi.org/10.1016/j.conbuildmat.2022.128572> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Circular renovation of an apartment building with prefabricated additional insulation elements to nearly zero energy building
Nigumann, Eero; Kalamees, Targo; Kuusk, Kalle; Pihelo, Peep Journal of sustainable architecture and civil engineering 2024 / p. 22-34 <https://doi.org/10.5755/j01.sace.34.1.35674> [Journal metrics at Scopus](#) [Article at Scopus](#)

A combined analytical model for increasing the accuracy of heat emission predictions in rooms heated by radiators
Võsa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek Journal of building engineering 2019 / p. 291-300 <https://doi.org/10.1016/j.jobe.2019.02.009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparative assessment of heat recovery from treated wastewater in the district heating systems of the three capitals of the Baltic countries
Ziemele, Jelena; Volkova, Anna; Latšov, Eduard; Murauskaite, Lina; Džiuvė, Vytautas Energy 2023 / art. 128132 <https://doi.org/10.1016/j.energy.2023.128132> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparative assessment of simple and detailed energy performance models for urban energy modelling based on digital twin and statistical typology database for the renovation of existing building stock
Hallik, Jaanus; Arumägi, Endrik; Pikas, Ergo; Kalamees, Targo Energy and buildings 2024 / art. 114775 <https://doi.org/10.1016/j.enbuild.2024.114775> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of performance-based specification properties for asphalt binders sourced from around the world
Lill, Kristjan; Khan, Ahmad Nawaz; Kontson, Karli; Hesp, Simon A. M. Construction and building materials 2020 / art. 120552, 8 p. : ill <https://doi.org/10.1016/j.conbuildmat.2020.120552> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Computationally efficient method for steel column buckling in fire
Kervalishvili, Andrei; Talvik, Ivar Buildings 2023 / 19 p <https://doi.org/10.3390/buildings13020407> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Conceptual framework of information flow synchronization throughout the building lifecycle
Raitviir, Christopher-Robin; Lill, Irene Buildings 2024 / art. 2207 <https://doi.org/10.3390/buildings14072207> [Journal metrics at Scopus](#)

Converting Tallinn's historic centre's (Old Town) heating system to a district heating system

Volkova, Anna; Krupenski, Igor; Kovtunova, Natalja; Hlebnikov, Aleksandr; Mašatin, Vladislav; Ledvanov, Aleksandr Energy 2023 / art. 127429 <https://doi.org/10.1016/j.energy.2023.127429> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Corrigendum to “New dose-response model and SARS-CoV-2 quanta emission rates for calculating the long-range airborne infection risk” [Build. Environ. 228 (2023) 109924] (S0360132322011544), (10.1016/j.buildenv.2022.109924)

Aganovic, Amar; Cao, Guangyu; Kurnitski, Jarek; Wargoeki, Pawel Building and environment 2024 / art. 111494, 1 p <https://doi.org/10.1016/j.buildenv.2024.111494> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost effectiveness of energy performance improvements in Estonian brick apartment buildings

Kuusk, Kalle; Kalamees, Targo; Maivel, Mikk Energy and buildings 2014 / p. 313-322 : ill <https://doi.org/10.1016/j.enbuild.2014.03.026> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost optimal and nearly zero energy building solutions for office buildings

Pikas, Ergo; Thalfeldt, Martin; Kurnitski, Jarek Energy and buildings 2014 / p. 30-42 : ill <https://doi.org/10.1016/j.enbuild.2014.01.039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost savings and CO2 emissions reduction potential in the German district heating system with demand response

Ju, Yuchen; Lindholm, Joakim; Verbeck, Moritz; Jokisalo, Juha; Kosonen, Risto; Janßen, Philipp; Li, Yantong; Schäfers, Hans; Nord, Natasa Science and Technology for the Built Environment 2022 / p. 255 - 274 <https://doi.org/10.1080/23744731.2021.2018875> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost-benefit analysis of nZEB energy efficiency strategies with on-site photovoltaic generation

Pikas, Ergo; Kurnitski, Jarek; Thalfeldt, Martin; Koskela, Lauri Energy 2017 / p. 291-301 : ill <https://doi.org/10.1016/j.energy.2017.03.158> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost-effective heating control approaches by demand response and peak demand limiting in an educational office building with district heating

Yuan, Xiaolei; Vand, Behrang; Martin, Kristian; Jokisalo, Juha; Liang, Yumin; Kosonen, Risto; Pan, Yiqun Buildings 2023 / art. 332, 18 p. : ill <https://doi.org/10.3390/buildings13020332> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cost-optimal renovation solutions for detached rural houses in Severe cold regions of China

Hu, Xinyi; Jokisalo, Juha; Kosonen, Risto; Lehtonen, Matti; Shao, Teng Buildings 2023 / art. 771, 19 p. : ill <https://doi.org/10.3390/buildings13030771> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Crashworthiness performance of stiffened bottom tank structure subjected to impact loading conditions : ship-rock interaction

Prabowo, Aditya Rio; Sohn, Jung Min; Putranto, Teguh Curved and Layered Structures 2019 / p. 245–258 : ill <https://doi.org/10.1515/cls-2019-0016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Critical factors for effective BIM-Enabled education : an adaptive structuration theory perspective

Olowa, Theophilus Oluwarotimi Olatunde; Witt, Emlyn David Qivitoq; Lill, Irene; Rasheed, A.; Abdulmumin, A.; Adebisi, R. Buildings 2023 / art. 3044, 18 p. : ill <https://doi.org/10.3390/buildings13123044> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Data generative machine learning model for the assessment of outdoor thermal and wind comfort in a northern urban environment

Eslamirad, Nasim; De Luca, Francesco; Lylykangas, Kimmo Sakari; Ben Yahia, Sadok Frontiers of architectural research 2023 / p. 541-555 : ill <https://doi.org/10.1016/j.foar.2022.12.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Data-driven baseline generation for post-retrofit energy saving assessment, a comparison of statistical and machine learning methods

Kuivjõgi, Helena; Vasman, Sofia; Petlenkov, Eduard; Thalfeldt, Martin; Kurnitski, Jarek Journal of building engineering 2024 / art. 111016 <https://doi.org/10.1016/j.jobe.2024.111016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Day-ahead economical planning of multi-vector energy district considering demand response program

Ghasemi-Marzbali, Ali; Shafiei, Mohammad; Ahmadihangar, Roya Applied energy 2023 / art. 120351 <https://doi.org/10.1016/j.apenergy.2022.120351> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Daylight and overheating prediction formulas for building design in a cold climate

Sepulveda Luque, Abel; De Luca, Francesco; Kurnitski, Jarek Journal of building engineering 2022 / art. 103532, 15 p. : ill

Defining a BIM-enabled learning environment - an adaptive structuration theory perspective

Olowa, Theophilus Oluwarotimi Olatunde; Witt, Emllyn David Qivitoq; Morganti, Caterina; Teittinine, Toni; **Lill, Irene** Buildings 2022 / art. 292 <https://doi.org/10.3390/buildings12030292> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Demand controlled ventilation indoor climate and energy performance in a high performance building with air flow rate controlled chilled beams

Ahmed, Kaiser; **Kurnitski, Jarek;** Sormunen, Piia Energy and buildings 2015 / p. 115-126 : ill
<https://doi.org/10.1016/j.enbuild.2015.09.052> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Demand response potential of district heating in a swimming hall in Finland

Yuan, Xiaolei; Lindroos, Leo; **Jokisalo, Juha; Kosonen, Risto;** Pan, Yiqun; Jin, Hui Energy and buildings 2021 / art. 111149, 12 p. : ill
<https://doi.org/10.1016/j.enbuild.2021.111149> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design of high-performing hybrid ground source heat pump (GSHP) system in an educational building

Xue, Tianchen; **Jokisalo, Juha; Kosonen, Risto;** Ju, Yuchen Buildings 2023 / art. 1825, 26 p. : ill
<https://doi.org/10.3390/buildings13071825> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design of the first net-zero energy buildings in Estonia

Arumägi, Endrik; Kalamees, Targo Science and technology for the built environment 2016 / p. 1039-1049 : ill
<https://doi.org/10.1080/23744731.2016.1206793> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Designing highly insulated cross-laminated timber external walls in terms of hygrothermal performance : field measurements and simulations

Kukk, Villu; Kaljula, Laura; Kers, Jaan; Kalamees, Targo Building and Environment 2022 / art. 108805
<https://doi.org/10.1016/j.buildenv.2022.108805> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Detailed and simplified window model and opening effects on optimal window size and heating need

Thalfeldt, Martin; Kurnitski, Jarek; Voll, Hendrik Energy and buildings 2016 / p. 242-251 : ill
<https://doi.org/10.1016/j.enbuild.2016.06.002> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determination of paper plaster hygrothermal performance: influence of different types of paper on sorption and moisture buffering

Vares, Maia-Liisa; Ruus, Aime; Nutt, Nele; Kubjas, Ardo; Raamets, Jane Journal of building engineering 2021 / art. 101830, 8 p. : ill
<https://doi.org/10.1016/j.jobe.2020.101830> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determining asphalt binder aging by using limiting phase angle temperature

Lill, Kristjan; Kontson, Karli; Aavik, Andrus Baltic journal of road and bridge engineering 2024 / p. 28-49
<https://doi.org/10.7250/bjrbe.2024-19.647> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determining ranges and spatial distribution of road frost heave by terrestrial laser scanning

Mill, Tarvo; Ellmann, Artu; Aavik, Andrus; Horemuz, Milan; Sillamäe, Sven The Baltic journal of road and bridge engineering 2014 / p. 225-234 : ill
<https://doi.org/10.3846/bjrbe.2014.28> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Deterministic and probabilistic analyses of the bearing capacity of screw cast in situ displacement piles in silty soils as measured by CPT and SDT

Leetsaar, Lehar; Korkiala-Tanttu, Leena The Baltic journal of road and bridge engineering 2023 / p. 99-127 : ill
<https://doi.org/10.7250/bjrbe.2023-18.600> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Developing energy calculation methodology and calculation tool validations : Application in air-heated ice rink arenas

Taebnia, Mehdi; Toomla, Sander; Leppä, Lauri; **Kurnitski, Jarek** Energy and buildings 2020 / art. 110389, 19 p. : ill
<https://doi.org/10.1016/j.enbuild.2020.110389> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Development of prefabricated additional insulation elements for the renovation of high-rise apartment buildings

Pihelo, Peep; Kalamees, Targo Journal of sustainable architecture and civil engineering 2024 / p. 8-22
<https://doi.org/10.5755/j01.sace.35.2.35422> Journal metrics at Scopus Article at Scopus

Direct aqueous carbonation on olivine at a CO₂ partial pressure of 6.5 MPa

Li, Jiajie; Jacobs, Anthony D.; **Hitch, Michael William** Energy 2019 / p. 902-910 : ill
<https://doi.org/10.1016/j.energy.2019.02.125> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Doping engineering for controlled hydration and mechanical properties in Portland cement mortar with ultra-low ZnO concentration

Tamashiro, Jacqueline Roberta; de la Rubia, Miguel Angel; Rubio-Marcos, Fernando; **Rojas Hernandez, Rocio Estefania;** Silva,

Lucas Henrique Pereira; de Paiva, Fabio Friol Guedes; Kinoshita, Angela; Terrades, Amparo Moragues Journal of building engineering 2023 / art. 107748 <https://doi.org/10.1016/j.jobe.2023.107748> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dynamic heating control measured and simulated effects on power reduction, energy and indoor air temperature in an old apartment building with district heating

Hajian, Hatef; Ahmed, Kaiser; **Kurnitski, Jarek** Energy and buildings 2022 / art. 112174 <https://doi.org/10.1016/j.enbuild.2022.112174> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The economic challenges of deep energy renovation - differences, similarities, and possible solutions in Northern Europe : Estonia and Denmark

Rose, Jorgen; **Kuusk, Kalle**; Thomsen, Kirsten Engelund; **Kalamees, Targo**; Morck, Ove Christen ASHRAE transactions. Vol. 122, pt. 1 2016 / p. 58-68 : ill <https://www.proquest.com/openview/3b32b899a3b498dc8694f261aaaa9cf0/1?pq-origsite=gscholar&cbl=34619> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Economic viability of energy-efficiency measures in educational buildings in Finland

Alanne, Kari; Schade, Jutta; Martinac, Ivo; Saari, Arto; Jokisalo, Juha; **Kalamees, Targo** Advances in building energy research 2013 / p. 120-127 <https://doi.org/10.1080/17512549.2013.809272> [Journal metrics at Scopus](#) [Article at Scopus](#)

Editorial

International journal of disaster resilience in the built environment 2020 / p. 1-2 <https://doi.org/10.1108/IJDRBE-02-2020-084> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Editorial - IEA-ECES Annex 31 special issue on thermal energy storage

Kurnitski, Jarek; Haghighat, Fariborz; Mirzaei, Parham A. Energy and buildings 2015 / p. 1-2 <https://doi.org/10.1016/j.enbuild.2015.08.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of lignin on veneer densification and set-recovery

Kilumets, Catherine; **Kallakas, Heikko**; Ralph, Sally; Zhu, J. Y.; Hunt, Christopher Glaab; **Rohumaa, Anti**; **Kers, Jaan** Construction and building materials 2024 / art. 138795 <https://doi.org/10.1016/j.conbuildmat.2024.138795> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of printing direction on the strength characteristics of a 3D printed concrete wall section

Põldaru, Mattias; **Tammkõrv, Karl**; **Tuisk, Tanel**; **Kiviste, Mihkel**; **Puust, Raido** Buildings 2023 / art. 2917 <https://doi.org/10.3390/buildings13122917> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of the urban microenvironment on the indoor air temperature of the residential building stock in the Helsinki region

Kravchenko, Iliia; Farahani, Azin Velashjerdi; **Kosonen, Risto**; Kilpeläinen, Simo; Saranko, Olli; Fortelius, Carl Building and Environment 2023 / art. 110971 <https://doi.org/10.1016/j.buildenv.2023.110971> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of thermal transmittance of building envelope and material selection of wind barrier on moisture safety of timber frame exterior wall

Pihelo, Peep; **Kalamees, Targo** Journal of building engineering 2016 / p. 29-38 : ill <https://doi.org/10.1016/j.jobe.2016.02.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effects of timber species and adhesive type on the behavior of finger joints in tension under fire conditions

Sciomenta, Martina; **Vihmann, Jane Liise**; **Tuhkanen, Eero**; **Just, Alar**; Fragiaco, Massimo Construction and building materials 2024 / art. 138080 <https://doi.org/10.1016/j.conbuildmat.2024.138080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Emissions of DEHP-free PVC flooring

Castagnoli, Emmanuelle; Backlund, Peter; Talvitie, Oskari; **Kurnitski, Jarek** Indoor air 2019 / p. 903-912 : ill <https://doi.org/10.1111/ina.12591> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy analysis in ice hockey arenas and analytical formula for the temperature profile in the ice pad with transient boundary conditions

Ferrantelli, Andrea; Viljanen, Klaus; **Kurnitski, Jarek** Advances in building energy research 2021 / p. 499-522 : ill <https://doi.org/10.1080/17512549.2019.1615549> [Journal metrics at Scopus](#) [Article at Scopus](#)

Energy and investment intensity of integrated renovation and 2030 cost optimal savings

Kurnitski, Jarek; **Kuusk, Kalle**; **Tark, Teet**; Uutar, Aivar; **Kalamees, Targo**; **Pikas, Ergo** Energy and buildings 2014 / p. 51-59 : ill <https://doi.org/10.1016/j.enbuild.2014.01.044> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy cascade connection of a low-temperature district heating network to the return line of a high-temperature district heating network

Volkova, Anna; Krupenski, Igor; Ledvanov, Aleksandr; Hlebnikov, Aleksandr; Lepiksaar, Kertu; Latõšov, Eduard; Mašatin, Vladislav Energy 2020 / art. 117304, 15 p. : ill <https://doi.org/10.1016/j.energy.2020.117304> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy demand for the heating and cooling of residential houses in Finland in a changing climate

Jylhä, Kirsti; Jokisalo, Juha; **Kalamees, Targo** Energy and buildings 2015 / p. 104-116 : ill <https://doi.org/10.1016/j.enbuild.2015.04.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy performance of radiators with parallel and serial connected panels

Maivel, Mikk; Konzelmann, Martin; Kurnitski, Jarek Energy and buildings 2015 / p. 745-753 : ill <https://doi.org/10.1016/j.enbuild.2014.10.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy use and indoor climate of conservation heating, dehumidification and adaptive ventilation for the climate control of a mediaeval church in a cold climate

Napp, Margus; Kalamees, Targo Energy and buildings 2015 / p. 61-71 : ill <https://doi.org/10.1016/j.enbuild.2015.08.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enhancing CLT construction – Hygrothermal modelling, novel performance criterion, and strategies for end-grain moisture safety

Kalbe, Kristo; Pärn, Roland; Ruus, Aime; Kalamees, Targo Journal of building engineering 2024 / art. 111411 <https://doi.org/10.1016/j.jobbe.2024.111411> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enhancing PV hosting capacity and mitigating congestion in distribution networks with deep learning based PV forecasting and battery management

Shabbir, Noman; Kütt, Lauri; Astapov, Victor; Daniel, Kamran; Jawad, Muhammad; Husev, Oleksandr; Rosin, Argo; Martins, Joao Applied energy 2024 / art. 123770 <https://doi.org/10.1016/j.apenergy.2024.123770> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Enhancing the bending strength, load-carrying capacity and material efficiency of aspen and black alder plywood through thermo-mechanical densification of face veneers

Akkurt, Tolgay; Rohumaa, Anti; Kallakas, Heikko; Scharf, Alexander; Kers, Jaan Construction and building materials 2024 / art. 138555 <https://doi.org/10.1016/j.conbuildmat.2024.138555> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Epistemological explanation of lean construction

Koskela, Lauri; Ferrantelli, Andrea; Niiranen, Jarkko; Pikas, Ergo; Dave, Bhargav Journal of construction engineering and management 2019 / p. 04018131-1-04018131-10 [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001597](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001597) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estimating parameters for traffic flow using navigation data on vehicles

Burinskiene, Marija; Kapski, Denis; Kasyanik, Valery; **Pashkevich, Anton** The Baltic journal of road and bridge engineering 2020 / p. 1-21 <https://doi.org/10.7250/bjrbe.2020-15.492> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estimating the impact of indoor relative humidity on SARS-CoV-2 airborne transmission risk using a new modification of the Wells-Riley model

Aganovic, Amar; Bi, Yang; Cao, Guangyu; Drangsholt, Finn; **Kurnitski, Jarek; Wargocki, Pawel** Building and environment 2021 / art. 108278, 14 p. : ill <https://doi.org/10.1016/j.buildenv.2021.108278> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Estonian traffic behaviour monitoring studies 2001-2016 : overview and results

Ess, Juri; Antov, Dago The Baltic journal of road and bridge engineering 2017 / p. 167-173 <https://doi.org/10.3846/bjrbe.2017.20> http://www.ester.ee/record=b2222369*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

European roadmap for the En-ActivETICS advancement and potential of the PV/PCM unventilated wall system application

Heim, Dariusz; **Talvik, Martin; Wieprzkowicz, Anna; Ilomets, Simo; Knera, Dominika; Kalamees, Targo; Czarny, Dariusz** Energy and buildings 2023 / art. 113207 <https://doi.org/10.1016/j.enbuild.2023.113207> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An evaluation and innovative coupling of seawater heat pumps in district heating networks

Ali, Hesham; Hlebnikov, Aleksandr; Pakere, Ieva; Volkova, Anna Energy 2024 / art. 133461 <https://doi.org/10.1016/j.energy.2024.133461> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluation of renovation strategies : cost-optimal, COle optimal, or total energy optimal

Kertsmit, Kadri-Ann; Kuusk, Kalle; Lylykangas, Kimmo Sakari; Kalamees, Targo Energy and buildings 2023 / art. 112995 <https://doi.org/10.1016/j.enbuild.2023.112995> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental determination of radiator, underfloor and air heating emission losses due to stratification and operative temperature variations

Maivel, Mikk; Ferrantelli, Andrea; Kurnitski, Jarek Energy and buildings 2018 / p. 220-228 : ill

<https://doi.org/10.1016/j.enbuild.2018.01.061> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental investigation of air distribution and ventilation efficiency in an ice rink arena

Toomla, Sander; Lestinen, Sami; Kilpeläinen, Simo; Leppä, Lauri; Kosonen, Risto; **Kurnitski, Jarek** International journal of ventilation 2019 / p. 187-203 : ill <https://doi.org/10.1080/14733315.2018.1437881> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental observation of crack formation on surface of charring timber

Rinta-Paavola, Aleks; **Ferrantelli, Andrea**; Hostikka, Simo Fire safety journal 2024 / art. 104231

<https://doi.org/10.1016/j.firesaf.2024.104231> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

External shading optimal control macros for 1- and 2-piece automated blinds in European climates

Thalfeldt, Martin; Kurnitski, Jarek Building simulation 2015 / p. 13-25 : ill <https://doi.org/10.1007/s12273-014-0194-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Extra cost analyses of two apartment buildings for achieving nearly zero and low energy buildings

Pikas, Ergo; Thalfeldt, Martin; Kurnitski, Jarek; Liias, Roode Energy 2015 / p. 623-633 : ill

<https://doi.org/10.1016/j.energy.2015.03.026> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Facade design principles for nearly zero energy buildings in a cold climate

Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek; Voll, Hendrik Energy and buildings 2013 / p. 309-321 : ill

<https://doi.org/10.1016/j.enbuild.2013.08.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Failure analysis of a spray polyurethane foam roofing system

Kalamees, Targo; Põldaru, Mattias; Ilomets, Simo; Klõšeiko, Paul; Kallavus, Urve; Rosenberg, Margit; Öiger, Karl Journal of building engineering 2020 / art. 101752, 9 p. : ill <https://doi.org/10.1016/j.job.2020.101752> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Finnish energy renovation subsidies in multifamily apartment buildings : Lessons learnt and best practices

Hajian, Hatef; Pylsy, Petri; **Simson, Raimo**; Ahmed, Kaiser; Sankelo, Paula; **Mikola, Alo; Kurnitski, Jarek** Energy and buildings 2024 / art. 113986 <https://doi.org/10.1016/j.enbuild.2024.113986> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fire protection provided by insulation materials - a new design approach for timber frame assemblies

Tiso, Mattia; Just, Alar Structural engineering international 2017 / p. 231-237 <https://doi.org/10.2749/101686617X14881932435899>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Free cooling potential of an airside economizer in Estonia

Palmiste, Ülar; Voll, Hendrik Science and technology for the built environment 2016 / p. 951-959 : ill

<https://doi.org/10.1080/23744731.2016.1195661> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Geodetic monitoring of bridge deformations occurring during static load testing

Mill, Tarvo; Ellmann, Artu; Kiisa, Martti; Idnurm, Juhan; Horemuz, Milan; Aavik, Andrus The Baltic journal of road and bridge engineering 2015 / p. 17-27 : ill <https://doi.org/10.3846/bjrbe.2015.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Geothermal energy piles and boreholes design with heat pump in a whole building simulation software

Fadejev, Jevgeni; Kurnitski, Jarek Energy and buildings 2015 / p. 23-34 : ill <https://doi.org/10.1016/j.enbuild.2015.06.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Guest Editor Preface

Kalamees, Targo Journal of Sustainable Architecture and Civil Engineering 2024 / p. 5-7 <https://doi.org/10.5755/j01.sace.34.1.36400> [Journal metrics at Scopus](#) [Article at Scopus](#)

Guest Editor Preface

Kalamees, Targo Journal of Sustainable Architecture and Civil Engineering 2024 / p. 5-7 <https://doi.org/10.5755/j01.sace.35.2.37676> [Journal metrics at Scopus](#) [Article at Scopus](#)

Guest editorial

Lill, Irene; Perera, Srinath International journal of disaster resilience in the built environment 2017 / p. 2-4

<https://doi.org/10.1108/IJDRBE-11-2016-0049> [Journal metrics at Scopus](#) [Article at Scopus](#)

Heating energy-saving potentials in HVAC system of swimming halls : a review

Yuan, Xiaolei; Chen, Zhisen; Liang, Yumin; Pan, Yiqun; **Jokisalo, Juha; Kosonen, Risto** Building and environment 2021 / art. 108189, 18 p. : ill <https://doi.org/10.1016/j.buildenv.2021.108189> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Heating system return temperature effect on heat pump performance

Maivel, Mikk; Kurnitski, Jarek Energy and buildings 2015 / p. 71-79 : ill <https://doi.org/10.1016/j.enbuild.2015.02.048> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High-strength fuel pellets made of flour milling and coal slack wastes

Tabakaev, Roman; Kahn, Victor; Dubinina, Yuri; **Preis, Sergei** Energy 2022 / art. 123071 <https://doi.org/10.1016/j.energy.2021.123071> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

How well are energy performance objectives being achieved in renovated apartment buildings in Estonia?

Hamburg, Anti; Kalamees, Targo Energy and buildings 2019 / p. 332-341 <https://doi.org/10.1016/j.enbuild.2019.07.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A hybrid Genetic Algorithm and Monte Carlo simulation approach to predict hourly energy consumption and generation by a cluster of Net Zero Energy Buildings

Garshasbi, Samira; **Kurnitski, Jarek**; Mohammadi, Yousef Applied energy 2016 / p. 626-637 : ill <https://doi.org/10.1016/j.apenergy.2016.07.033> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hygrothermal performance of a brick wall with interior insulation in cold climate : vapour open vs vapour tight approach

Klõšeiko, Paul; Kalamees, Targo Journal of building physics 2022 / p. 3-35 : ill <https://doi.org/10.1177/17442591211056067> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hygrothermal performance of internally insulated brick wall in cold climate : a case study in a historical school building

Klõšeiko, Paul; Arumägi, Endrik; Kalamees, Targo Journal of building physics 2015 / p. 444-464 : ill <https://doi.org/10.1177/1744259114532609> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Hygrothermal performance of thick PCM mortar behind PV panels in energy-activated ETICS facades

Talvik, Martin; Ilomets, Simo; Klõšeiko, Paul; Kalamees, Targo; Põldaru, Mattias; Heim, Dariusz Buildings 2023 / art. 1572 <https://doi.org/10.3390/buildings13061572> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Impact of built-in moisture on the design of hygrothermally safe cross-laminated timber external walls : a stochastic approach

Kukk, Villu; Kers, Jaan; Kalamees, Targo; Wang, Lin; Ge, Hua Building and environment 2022 / art. 109736 <https://doi.org/10.1016/j.buildenv.2022.109736> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The impact of the technical requirements of the renovation grant on the ventilation and indoor air quality in apartment buildings

Mikola, Alo; Hamburg, Anti; Kuusk, Kalle; Kalamees, Targo; Voll, Hendrik; Kurnitski, Jarek Building and environment 2022 / art. 108698 <https://doi.org/10.1016/j.buildenv.2021.108698> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improving design quality by contractor involvement : an empirical study on effects

Lappalainen, Eeloni; Uusitalo, Petteri; **Pikas, Ergo**; Seppänen, Olli; Peltokorpi, Antti; Uusitalo, Petri; Reinbold, Ana; Menzhinskii, Nikolai Buildings 2022 / art. 1188 <https://doi.org/10.3390/buildings12081188> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Indoor hygrothermal loads for the deterministic and stochastic design of the building envelope for dwellings in cold climates

Ilomets, Simo; Kalamees, Targo; Vinha, Juha Journal of building physics 2018 / p. 547-577 : ill <https://doi.org/10.1177/1744259117718442> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An integrated computational method for calculating dynamic thermal bridges of building facades in tropical countries

Cahyadi Agung, Muhammad Rafif, Alkadri, Miktha Farid; **De Luca, Francesco** Frontiers of architectural research 2024 / p. 201-218 : ill <https://doi.org/10.1016/j.foar.2023.11.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Jobs created out of Tallinn have not reduced commuting

Mäe, Roland; Antov, Dago; Antso, Imre The Baltic journal of road and bridge engineering 2013 / p. 58-65 <https://doi.org/10.3846/bjrbe.2013.08> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Learning based personalized energy management systems for residential buildings

Soudari, Mallikarjun; Srinivasan, Seshadri; Balasubramanian, Subathra; **Vain, Jüri; Kotta, Ülle** Energy and buildings 2016 / p. 953-968 : ill <https://doi.org/10.1016/j.enbuild.2016.05.059> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Circular, local, open : a recipe for sustainable building construction

Kouvvara, Asimina; Priavolou, Christina; Ott, Denise; Scherer, Philipp; Zyl-Bulitta, Verena *Helen van Buildings* 2023 / art. 2493
<https://doi.org/10.3390/buildings13102493> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Low temperature radiator heating distribution and emission efficiency in residential buildings

Maivel, Mikk; Kurnitski, Jarek *Energy and buildings* 2014 / p. 224-236 : ill <https://doi.org/10.1016/j.enbuild.2013.10.030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Low-temperature waste heat enabling abandoning coal in Espoo district heating system

Hiltunen, Pauli; Syri, Sanna *Energy* 2021 / art. 120916, 11 p. : ill <https://doi.org/10.1016/j.energy.2021.120916> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Market based renovation solutions in non-residential buildings - Why commercial buildings are not renovated to NZEB

Kuivjõgi, Helena; Uutar, Aivar; Kuusk, Kalle; Thalfeldt, Martin; Kurnitski, Jarek *Energy and buildings* 2021 / art. 111169, 13 p. : ill <https://doi.org/10.1016/j.enbuild.2021.111169> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanical properties and self-healing capacity of ultra high performance fibre reinforced concrete with alumina nano-fibres : tailoring ultra high durability concrete for aggressive exposure scenarios

Cuenca, Estefania; D'Ambrosio, Leonardo; Lizunov, Dennis; Tretjakov, Aleksei; Volobujeva, Olga; Ferrara, Liberato *Cement and concrete composites* 2021 / art. 103956, 17 p <https://doi.org/10.1016/j.cemconcomp.2021.103956> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Method of linear approximation of COP for heat pumps and chillers based on thermodynamic modelling and off-design operation

Pieper, Henrik; Krupenski, Igor; Markussen, Wiebke Brix; Ommen, Torben; Siirde, Andres; Volkova, Anna *Energy* 2021 / art. 120743 : ill <https://doi.org/10.1016/j.energy.2021.120743> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Methodology for evaluating the transition process dynamics towards 4th generation district heating systems

Volkova, Anna; Mašatin, Vladislav; Siirde, Andres *Energy* 2018 / p. 253-261 : ill <https://doi.org/10.1016/j.energy.2018.02.123> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microgrid oriented modeling of space heating system based on neural networks

Häring, Tobias; Kull, Tuule Mall; Ahmadiyahangar, Roya; Rosin, Argo; Thalfeldt, Martin; Biechl, Helmuth *Journal of building engineering* 2021 / art. 103150, 12 p. : ill <https://doi.org/10.1016/j.jobe.2021.103150> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modelling the technical-economic relevance of the ETICS construction process

Sulakatko, Virgo *Buildings* 2018 / art. 155, 26 p. : ill <https://doi.org/10.3390/buildings8110155> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Modified procedure for buckling of steel columns at elevated temperatures

Kervalishvili, Andrei; Talvik, Ivar *Journal of Constructional Steel Research* 2016 / p. 108 - 119
<https://doi.org/10.1016/j.jcsr.2016.07.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Moisture buffer value of composite material made of clay-sand plaster and wastepaper

Nutt, Nele; Kubjas, Ardo *Journal of sustainable architecture and civil engineering* 2020 / p. 108-115
<https://doi.org/10.5755/j01.sace.27.2.25391> [Journal metrics at Scopus](#) [Article at Scopus](#)

Moisture control strategies of habitable basements in cold climates

Asphaug, Silje Kathrin; Kvande, Tore; Time, Berit; Peuhkuri, Ruut H.; Kalamees, Targo; Johansson, Pär; Berardi, Umberto; Lohne, Jardar *Building and Environment* 2020 / Art. 106572 <https://doi.org/10.1016/j.buildenv.2019.106572> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Moisture safety in prefabricated roof renovations : causes and strategies

Kodi, Georg-Mihkel; Kalbe, Kristo; Pihelo, Peep; Kalamees, Targo *Journal of sustainable architecture and civil engineering* 2024 / p. 68-83 <https://doi.org/10.5755/j01.sace.35.2.35825> [Journal metrics at Scopus](#) [Article at Scopus](#)

MO-NILM: A multi-objective evolutionary algorithm for NILM classification

Machlev, Ram; Belikov, Juri; Beck, Yuval; Levron, Yoash *Energy and buildings* 2019 / p. 134-144
<https://doi.org/10.1016/j.enbuild.2019.06.046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Monthly domestic hot water profiles for energy calculation in Finnish apartment buildings

Ahmed, Kaiser; Pylsy, Petri; Kurnitski, Jarek *Energy and buildings* 2015 / 77-85 : ill <https://doi.org/10.1016/j.enbuild.2015.03.051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multi-performance optimization of static shading devices for glare, daylight, view and energy consideration

De Luca, Francesco; Sepulveda Luque, Abel; Varjas, Toivo Building and environment 2022 / art. 109110

<https://doi.org/10.1016/j.buildenv.2022.109110> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multi-source district heating system full decarbonization strategies: Technical, economic, and environmental assessment

Pakere, Ieva; Feofilovs, Maksims; Lepiksaar, Kertu; Vītolīš, Valdis; Blumberga, Dagnija Energy 2023 / art. 129296

<https://doi.org/10.1016/j.energy.2023.129296> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

New dose-response model and SARS-CoV-2 quanta emission rates for calculating the long-range airborne infection risk

Aganovic, Amar; Cao, Guangyu; Kurnitski, Jarek; Wargocki, Pawel Building and environment 2023 / art. 109924, 13 p. : ill

<https://doi.org/10.1016/j.buildenv.2022.109924> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

New typical meteorological year generation method based on long-term building energy simulations

Seyed Salehi, Seyed Shahabaldin; Kalamees, Targo; Kurnitski, Jarek; Thalfeldt, Martin Building and environment 2024 / art. 111504

<https://doi.org/10.1016/j.buildenv.2024.111504> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel method for calculating heat emitter and controller configuration setpoint variations with EN15316-2

Võsa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek Journal of building engineering 2020 / art. 101387

<https://doi.org/10.1016/j.jobe.2020.101387> <https://aaltodoc.aalto.fi/handle/123456789/43872> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A novel solar envelope method based on solar ordinances for urban planning

De Luca, Francesco; Dogan, Timur Building Simulation 2019 / p. 817 - 834 <https://doi.org/10.1007/s12273-019-0561-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numerical analysis of additional heat loss induced by air cavities between insulation boards due to non-ideality

Hallik, Jaanus; Klõšeiko, Paul; Piir, Reimo; Kalamees, Targo Journal of building engineering 2022 / art. 05221

<https://doi.org/10.1016/j.jobe.2022.105221> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numerical simulation of acoustic emission during crack growth in 3-point bending test

Berezovski, Arkadi; Berezovski, Mihail Structural control & health monitoring 2017 / e1996, p. 1-8 : ill <https://doi.org/10.1002/stc.1996>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numerical simulation of CLT moisture uptake and dry-out following water infiltration through end-grain surfaces

Brandstätter, Florian; Kalbe, Kristo; Autengruber, Maximilian; Lukacevic, Markus; Kalamees, Targo; Ruus, Aime; Annuk, Alvar;

Füssli, Josef Journal of Building Engineering 2023 / art. 108097 <https://doi.org/10.1016/j.jobe.2023.108097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oil prices, unemployment and the financial crisis in oil-importing countries : The case of Spain

Ordóñez, Javier; Monfort, Mercedes; Cuestas, Juan Carlos Energy 2019 / p. 625-634 <https://doi.org/10.1016/j.energy.2019.05.209>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Oil shale ash based backfilling concrete - strength development, mineral transformations and leachability

Uibu, Mai; Somelar, Peeter; Raado, Lembi-Merike; Irha, Natalja; Hain, Tiina; Koroljova, Arina; Kuusik, Rein; Keemik

Construction and building materials 2016 / p. 620-630 : ill <https://doi.org/10.1016/j.conbuildmat.2015.10.197> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

On-line repository of digital resources for a BIM-enabled learning environment

Bragadin, Marco A.; Morganti, Caterina; Ricci, Pier Carlo; Witt, Emlyn David Qivitoq; Kahkonen, Kalle; Puolitaival, Taija Journal of

information technology in construction 2024 / p. 1039-1057 : ill <https://doi.org/10.36680/j.itcon.2024.046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Operation of district heat network in electricity and balancing markets with the power-to-heat sector coupling

Javanshir, Nima; Syri, Sanna; Tervo, Seela; Rosin, Argo Energy 2023 / art. 126423 <https://doi.org/10.1016/j.energy.2022.126423>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimization of renewable energy for buildings with energy storages and 15-minute power balance

Savolainen, Rebecka; Lahdelma, Risto Energy 2022 / art. 123046 <https://doi.org/10.1016/j.energy.2021.123046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Journal metrics at WOS](#)

Overheating and air velocities in modern office buildings during heating season

Kiil, Martin; Simson, Raimo; Thalfeldt, Martin; Kurnitski, Jarek Indoor air 2024 / art. 992937, 20 p.

<https://doi.org/10.1155/2024/992937> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Overheating assessment for apartments during average and hot summers in the Nordic climate

Farahani, Azin Velashjerdi; Kravchenko, Iliia; **Jokisalo, Juha**; Korhonen, Natalia; Jylhä, Kirsti; **Kosonen, Risto** Building research and information 2024 / p. 273-291 : ill <https://doi.org/10.1080/09613218.2023.2253338> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Overview and future challenges of nearly zero-energy building (nZEB) design in Eastern Europe

Attia, Shady; **Kurnitski, Jarek**; Kosin, Piotr; Borodinecs, Anatolijs; Belafi, Zsofia Deme; Istvan, Kistelegdi; Krstic, Hrvoje; Moldovan, Macedon; Visa, Ion; Mihailov, Nicolay Energy and buildings 2022 / art. 112165 <https://doi.org/10.1016/j.enbuild.2022.112165> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Parameter estimation of PEM fuel cells employing the hybrid grey wolf optimization method

Miao, Di; Chen, Wei; Zhao, Wei; **Demsas, Tekle** Energy 2020 / Art. 116616 <https://doi.org/10.1016/j.energy.2019.116616> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Peak shaving of a district heated office building with short-term thermal energy storage in Finland

Ju, Yuchen; **Jokisalo, Juha**; **Kosonen, Risto** Buildings 2023 / art. 573, 23 p. : ill <https://doi.org/10.3390/buildings13030573> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance assessment of ventilative and radiant cooling systems in office buildings during extreme weather conditions under a changing climate

Farahani, Azin Velashjerdi; **Jokisalo, Juha**; Korhonen, Natalia; Jylhä, Kirsti; **Kosonen, Risto**; Lestinen, Sami Journal of building engineering 2022 / art. 104951, 22 p. : ill <https://doi.org/10.1016/j.jobe.2022.104951> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance of modern passive stack ventilation in a retrofitted Nordic apartment building

Kravchenko, Iliia; **Kosonen, Risto**; **Jokisalo, Juha**; Kilpeläinen, Simo Buildings 2022 / art. 96, 27 p. : ill <https://doi.org/10.3390/buildings12020096> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Photovoltaic-powered seasonal snow storage-assisted district cooling system: Site suitability analysis and performance assessment

Sukumaran, Sreenath; Kirs, Tanel; Kirs, Kristian; Volkova, Anna Energy 2024 / art. 133586 <https://doi.org/10.1016/j.energy.2024.133586> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Positive pressure effect on moisture performance in a school building

Ferrantelli, Andrea; Vornanen-Winqvist, Camilla; Mattila, Milla; Salonen, Heidi; **Kurnitski, Jarek** Journal of building physics 2019 / p. 121-142 : ill <https://doi.org/10.1177/1744259119837144> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Post-COVID ventilation design : infection risk-based target ventilation rates and point source ventilation effectiveness

Kurnitski, Jarek; Kiil, Martin; Mikola, Alo; Vösa, Karl-Villem; Aganovic, Amar; Schild, Peter G.; Seppänen, Olli Energy and buildings 2023 / art. 113386 <https://doi.org/10.1016/j.enbuild.2023.113386> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Power plant fuel consumption rate during load cycling

Nešumajev, Dmitri; Rummel, Leo; Konist, Alar; Ots, Arvo; Parve, Teet Applied energy 2018 / p. 124-135 : ill <https://doi.org/10.1016/j.apenergy.2018.04.063> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Prefab light clay-timber elements for net zero whole-life carbon buildings

Päätaalo, Juha; **Alao, Percy Festus**; Rohumaa, Anti; Kers, Jaan; Liblik, Johanna; Lylykangas, Kimmo Sakari Journal of sustainable architecture and civil engineering 2024 / p. 89-100 <https://doi.org/10.5755/j01.sace.34.1.35561> [Journal metrics at Scopus](#) [Article at Scopus](#)

Probabilistic analysis of operational ice damage for Polar class vessels using full-scale data

Suominen, Mikko; **Körgeaar, Mihkel**; Taylor, Rocky; Bergstrom, Martin Structural safety 2024 / art. 102423 <https://doi.org/10.1016/j.strusafe.2023.102423> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Process development for 3D laser lithography

Kaste, N.; Filbert, A.; Mescheder, U.; **Rang, Toomas**; **Rang, Galina** High performance and optimum design of structures and materials 2014 / p. 139-150 : ill <https://doi.org/10.2495/HPSM140131> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Quality evaluation of sizeable surveying-industry-produced terrestrial laser scanning point clouds that facilitate building information modeling - a case study of seven point clouds

Varbla, Sander; Puust, Raido; Ellmann, Artu Buildings 2024 / art. 3371 <https://doi.org/10.3390/buildings14113371> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quantification of economic benefits of renovation of apartment buildings as a basis for cost optimal 2030 energy efficiency strategies

Pikas, Ergo; Kurnitski, Jarek; Liias, Roode; Thalfeldt, Martin Energy and buildings 2015 / p. 151-160 : ill
<https://doi.org/10.1016/j.enbuild.2014.10.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quantification of environmental and economic impacts for main categories of building labeling schemes
Seinre, Erkki; Kurnitski, Jarek; Voll, Hendrik Energy and buildings 2014 / p. 145-158 : ill <https://doi.org/10.1016/j.enbuild.2013.11.048>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Quick protocol for integrating the attribute information of unstructured point cloud data into a solar envelope simulation
Alkadri, Miktha Farid; De Luca, Francesco; Turrin, Michela; Agung, Muhammad Rafif Cahyadi Journal of green building 2023 / p. 3-15 : ill <https://doi.org/10.3992/jgb.18.4.3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Radiant panel and air heating performance in large industrial buildings
Ahmed, Kaiser; Sistonen, Esko; Simson, Raimo; Kurnitski, Jarek; Kesti, Jyrki; Lautso, Petteri Building simulation 2018 / p. 293-303 : ill <https://doi.org/10.1007/s12273-017-0414-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Radiator and floor heating operative temperature and temperature variation corrections for EN 15316-2 heat emission standard
Maivel, Mikk; Kurnitski, Jarek Energy and buildings 2015 / p. 204-213 : ill <https://doi.org/10.1016/j.enbuild.2015.04.021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Realisation of energy performance targets of an old apartment building renovated to nZEB
Hamburg, Anti; Kuusk, Kalle; Mikola, Alo; Kalamees, Targo Energy 2020 / art. 116874, 10 p. : ill <https://doi.org/10.1016/j.energy.2019.116874> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Renovation alternatives to improve energy performance of historic rural houses in the Baltic Sea region
Alev, Üllar; Eskola, Lari; Arumägi, Endrik; Kalamees, Targo Energy and buildings 2014 / p. 58-66 : ill <https://doi.org/10.1016/j.enbuild.2014.03.049> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Respiratory infection risk-based ventilation design method
Kurnitski, Jarek; Kiil, Martin; Wargocki, Pawel; Boerstra, Atze; Seppänen, Olli; Olesen, Bjarne; Morawska, Lidia Building and environment 2021 / art. 108387, 11 p. : ill <https://doi.org/10.1016/j.buildenv.2021.108387> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Retrofit cost-effectiveness : Estonian apartment buildings
Kuusk, Kalle; Kalamees, Targo Building research & information 2016 / p. 920-934 : ill <https://doi.org/10.1080/09613218.2016.1103117> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reverse solar envelope method. A new building form-finding method that can take regulatory frameworks into account
De Luca, Francesco; Dogan, Timur; Sepulveda Luque, Abel Automation in construction 2021 / art. 103518, 18 p. : ill <https://doi.org/10.1016/j.autcon.2020.103518> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A review on energy piles design, sizing and modelling
Fadejev, Jevgeni; Simson, Raimo; Kurnitski, Jarek; Haghighat, Fariborz Energy 2017 / p. 390-407 : ill <https://doi.org/10.1016/j.energy.2017.01.097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Revitalizing modernist districts : neighbourhood level mass-renovation with OFTacademy project
Truu, Murel; Lihtmaa, Lauri; Niinemägi, Mariliis Journal of sustainable architecture and civil engineering 2024 / p. 8-21
<https://doi.org/10.5755/j01.sace.34.1.35646> [Journal metrics at Scopus](#) [Article at Scopus](#)

Risk of microbial growth in ventilation ductwork located in the humid and cold conditions
Kravchenko, Iia; Pasanen, Pertti; Lestinen, Sami; Kilpeläinen, Simo; Kosonen, Risto Buildings 2023 / art. 1683, 14 p. : ill <https://doi.org/10.3390/buildings13071683> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robotically placed reinforcement using the automated screwing device – an application perspective for 3D concrete printing
Hass, Lauri; Bos, Freek Third RILEM International Conference on Concrete and Digital Fabrication : Digital Concrete 2022 2022 / p. 417 - 423 https://doi.org/10.1007/978-3-031-06116-5_62 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Self-learning model predictive control for dynamic activation of structural thermal mass in residential buildings
Wolisz, Henryk; Kull, Tuule Mall; Müller, Dirk; Kurnitski, Jarek Energy and buildings 2020 / art. 109542, 21 p. : ill <https://doi.org/10.1016/j.enbuild.2019.109542> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sensitivity of a lumped-capacitance building thermal modelling approach for energy-market-scale flexibility studies
Rasku, Topi; Simson, Raimo; Kiviluoma, Juha Buildings 2024 / art. 1614 <https://doi.org/10.3390/buildings14061614> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Simulated influence of indoor climate and ventilation on schoolwork performance in Estonian manor schools

Kalamees, Targo; Väli, Alan; Kallavus, Urve; Kurik, Lembit; Alev, Üllar International journal of ventilation 2015 / p. 153-164 : ill
<https://doi.org/10.1080/14733315.2015.11684077> [Journal metrics at Scopus](#) [Article at Scopus](#)

Simulation analysis of Finnish residential buildings' resilience to hot summers under a changing climate

Farahani, Azin Velashjerdi; Jokisalo, Juha; Korhonen, Natalia; Jylhä, Kirsti; Kosonen, Risto Journal of building engineering 2024 / art. 108348, 20 p. : ill <https://doi.org/10.1016/j.jobe.2023.108348> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Small low-temperature district heating network development prospects

Volkova, Anna; Krupenski, Igor; Pieper, Henrik; Ledvanov, Aleksandr; Latšov, Eduard; Siirde, Andres Energy 2019 / p. 714-722 <https://doi.org/10.1016/j.energy.2019.04.083> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solar radiation-based method for early design stages to balance daylight and thermal comfort in office buildings

Sepulveda Luque, Abel; Seyed Salehi, Seyed Shahabaldin; De Luca, Francesco; Thalfeldt, Martin Frontiers of architectural research 2023 / p. 1030 - 1046 <https://doi.org/10.1016/j.foar.2023.07.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Statistical analysis of reinforced concrete bridges in Estonia

Sein, Sander; Campos Matos, Jose; Idnurm, Juhan The Baltic journal of road and bridge engineering 2017 / p. 223-233 : ill
<http://hdl.handle.net/1822/53582> http://www.ester.ee/record=b2222369*est <https://doi.org/10.3846/bjrbe.2017.28> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Strength- and moisture-related studies of historical building materials: A case study from Southern Estonia

Gineiko, Aljona; Kiviste, Mihkel Buildings 2024 / art. 3565 <https://doi.org/10.3390/buildings14113565> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Summer thermal comfort : compliance assessment and overheating prevention in new apartment buildings in Estonia

Simson, Raimo; Kurnitski, Jarek; Maivel, Mikk Journal of building performance simulation 2017 / p. 378-391 : ill
<https://doi.org/10.1080/19401493.2016.1248488> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Superpave pavement design temperatures in Estonia

Kontson, Karli; Lill, Kristjan; Aavik, Andrus The Baltic journal of road and bridge engineering 2023 / p. 190-204
<https://doi.org/10.7250/bjrbe.2023-18.603> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A tabulated sizing method for the early stage design of geothermal energy piles including thermal storage

Ferrantelli, Andrea; Fadejev, Jevgeni; Kurnitski, Jarek Energy and buildings 2020 / art. 110178
<https://doi.org/10.1016/j.enbuild.2020.110178> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tall buildings cluster form rationalization in a Nordic climate by factoring in indoor-outdoor comfort and energy

De Luca, Francesco; Naboni, Emanuele; Lobaccaro, Gabriele Energy and buildings 2021 / art. 110831, 16 p. : ill
<https://doi.org/10.1016/j.enbuild.2021.110831> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Technical state, renovation need, and performance of renovation solutions of Estonian wooden log houses

Põdra, Alois Andreas; Allas, Gert Air; Ruus, Aime; Lutsepp, Elo; Kalamees, Targo Journal of sustainable architecture and civil engineering 2024 / p. 35-52 <https://doi.org/10.5755/j01.sace.34.1.35606> [Journal metrics at Scopus](#) [Article at Scopus](#)

Techno-economic analysis and energy forecasting study of domestic and commercial photovoltaic system installations in Estonia

Shabbir, Noman; Kütt, Lauri; Raja, Hadi Ashraf; Jawad, Muhammad; Allik, Alo; Husev, Oleksandr Energy 2022 / art. 124156
<https://doi.org/10.1016/j.energy.2022.124156> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Techno-economic analysis of a 5th generation district heating system using thermo-hydraulic model : a multi-objective analysis for a case study in heating dominated climate

Saini, Puneet; Huang, Pei; Fiedler, Frank; Volkova, Anna; Zhang, Xingxing Energy and buildings 2023 / art. 113347
<https://doi.org/10.1016/j.enbuild.2023.113347> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ten questions concerning environmental architectural design exploration

De Luca, Francesco; Natanian, Jonathan; Wortmann, Thomas Building and environment 2024 / art. 111697
<https://doi.org/10.1016/j.buildenv.2024.111697> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ten questions on tools and methods for positive energy districts

Natanian, Jonathan; Guarino, Francesco; Manapragada, Naga; Magyari, Abel; Naboni, Emanuele; De Luca, Francesco; Cellura, Salvatore; Brunetti, Alberto; Reith, Andras Building and environment 2024 / art. 111429 <https://doi.org/10.1016/j.buildenv.2024.111429> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tensile analysis and assessment of carbon and alloy steels using FE approach as an idealization of material fractures under collision and grounding

Ridwan; Prabowo, Aditya Rio; Muhayat, Nurul; **Putranto, Teguh**; Sohn, Jung Min Curved and Layered Structures 2020 / p. 188-198
<https://doi.org/10.1515/cls-2020-0016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The benefits of integrating industrial hydrogen production with district heating in cold climates with different building renovation levels

Moradpoor, Iraj; **Koivunen, Tero**; **Syri, Sanna**; Hirvonen, Janne Energy 2024 / art. 131953, 13 p.: ill
<https://doi.org/10.1016/j.energy.2024.131953> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of birch (Betula pendula Roth) face veneer thickness on the reaction to fire properties of fire-retardant treated plywood

Alao, Percy Festus; **Dembovski, Karl Harold**; **Rohumaa, Anti**; Ruponen, Jussi; **Kers, Jaan** Construction and building materials 2024 / art. 136242 <https://doi.org/10.1016/j.conbuildmat.2024.136242> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of flanking element length in thermal bridge calculation and possible simplifications to account for combined thermal bridges in well insulated building envelopes

Hallik, Jaanus; **Kalamees, Targo** Energy and buildings 2021 / art. 111397 <https://doi.org/10.1016/j.enbuild.2021.111397> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effects of production technologies on the air permeability and crack development of cross-laminated timber

Kukk, Villu; **Kalamees, Targo**; **Kers, Jaan** Journal of building physics 2019 / p. 171-186 : ill
<https://doi.org/10.1177/1744259119866869> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The impact of energy renovation on continuously and intermittently heated residential buildings in Southern Europe

Wang, Yangmin; Hirvonen, Janne; Qu, Ke; **Jokisalo, Juha**; **Kosonen, Risto** Buildings 2022 / art. 1316, 33 p. : ill
<https://doi.org/10.3390/buildings12091316> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermodynamic and thermoeconomic analysis and optimization of a renewable-based hybrid system for power, hydrogen, and freshwater production

Gao, Jinling; Zhang, Yong; Li, Xuetao; Zhou, Xiao; **Kilburn, Zofia J.** Energy 2024 / art. 131002, 21 p. : ill
<https://doi.org/10.1016/j.energy.2024.131002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards sustainable construction practices : how to reinvigorate vernacular buildings in the digital era?

Priavoulou, Christina; **Tsiouris, Nikiforos**; Niaros, Vasileios; **Kostakis, Vasileios** Buildings 2021 / art. 297
<https://doi.org/10.3390/buildings11070297> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Transmission of SARS-CoV-2 by inhalation of respiratory aerosol in the Skagit Valley Chorale superspreading event

Miller, Shelly L.; Nazaroff, William W.; Jimenez, Jose L.; **Kurnitski, Jarek** Indoor air 2021 / p. 314-323 <https://doi.org/10.1111/ina.12751> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ultimate strength assessment of stiffened panels using Equivalent Single Layer approach under combined in-plane compression and shear

Putranto, Teguh; **Körgešaar, Mihkel**; Jelovica, Jasmin Thin-Walled Structures 2022 / art. 109943
<https://doi.org/10.1016/j.tws.2022.109943> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Unified methodology for estimating efficiency of traffic calming measures - example of Estonia

Ess, Juri; **Antov, Dago** The Baltic journal of road and bridge engineering 2016 / p. 259-265 <https://doi.org/10.3846/bjrbe.2016.30> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Unmanned aerial vehicle surveying for monitoring road construction earthworks

Julge, Kalev; **Ellmann, Artu**; **Köök, Romet** The Baltic journal of road and bridge engineering 2019 / p. 1-17 : ill
<https://doi.org/10.7250/bjrbe.2019-14.430> http://www.eester.ee/record=b2222369*est <https://journals.vgtu.lt/index.php/BJRBE> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Use of smartphone accelerometers for winter road maintenance improvement in urban areas

Körbe Kaare, Kati; **Koppel, Ott**; Kuhi, Kristjan Urban transport XIX 2013 / p. 253-263 : ill <https://doi.org/10.2495/UT130201> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Wax actuator's empirical model development and application to underfloor heating control with varying complexity of controller modelling detail

Parts, Tuule Mall; **Ferrantelli, Andrea**; **Naar, Hendrik**; **Thalfeldt, Martin**; **Kurnitski, Jarek** Journal of building performance simulation 2023 / p. 772-796 <https://doi.org/10.1080/19401493.2023.2201818> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Wetting circumstances, expected moisture content, and drying performance of CLT end-grain edges based on field measurements and laboratory analysis

Kalbe, Kristo; Kalamees, Targo; Kukk, Villu; Ruus, Aime; Annuk, Alvar Building and environment 2022 / art. 109245

<https://doi.org/10.1016/j.buildenv.2022.109245> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Window model and 5 year price data sensitivity to cost-effective facade solutions for office buildings in Estonia

Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek; Voll, Hendrik Energy 2017 / p. 685-697 : ill

<https://doi.org/10.1016/j.energy.2017.06.160> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)